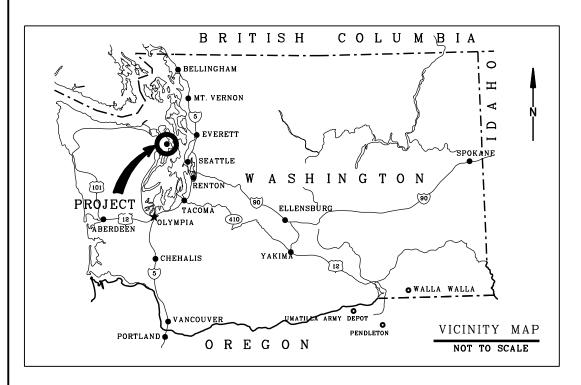


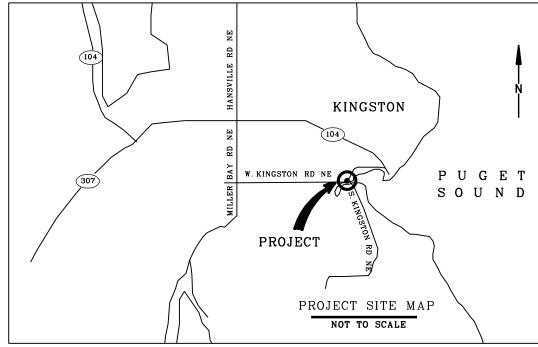
# CARPENTER CREEK ESTUARY

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT

# SECTION 206 RESTORATION PROJECT

KITSAP COUNTY, WASHINGTON





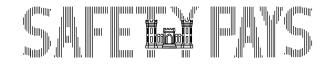
SHEET	PLATE	DESCRIPTION				
1	G1	TITLE SHEET				
2	G2	QUANTITIES, GENERAL NOTES, LEGEND, AND ABBREVIATIONS				
3	G3	CONSTRUCTION SEQUENCE NOTES				
4	G4	SITE PLAN / PROJECT MEASURES				
5	T1	TRAFFIC CONTROL PLAN - SOUTH KINGSTON ROAD				
6	Т2	TRAFFIC CONTROL PLAN - WEST KINGSTON ROAD				
7	C1	PLAN AND PROFILE - SOUTH KINGSTON ROAD				
8	C2	PLAN AND PROFILE - CARPENTER CREEK SOUTH				
9	C3	PLAN AND PROFILE - WEST KINGSTON ROAD				
10	C4	PLAN AND PROFILE - CARPENTER CREEK WEST				
11	C5	BRIDGE PLAN AND SECTION - SOUTH KINGSTON ROAD				
12	C6	BRIDGE ELEVEATION AND FOUNDATION LAYOUT - SOUTH KINGSTON RD				
13	C7	BRIDGE PLAN AND SECTION - WEST KINGSTON ROAD				
14	C8	BRIDGE ELEVATION AND FOUNDATION LAYOUT-WEST KINGSTON RD				
15	C9	CHANNEL AND ROAD - DETAILS				
16	C10	DIVERSION PLAN - CARPENTER CREEK SOUTH				
17	C11	DIVERSION PLAN - CARPENTER CREEK WEST				
18	P1	PLANTING PLAN AND NOTES				
SHEE	SHEET INDEX					

THIS PROJECT WAS DESIGNED BY:
TETRA TECH.INC.
FOR THE U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT

TETRA TECH, INC. 925 POST ALLEY, STE. 4 SEATTLE, WA 98101

COMPUTER
AIDED
DESIGN &
DRAFTING

CONTRACT NO. DACA67-02-D-2009 DELIVERY ORDER NO. 0001



VALUE ENGINEERING PAYS



TETRA TECH INC.



CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

TITLE SHEET

KITSAP COUNTY, WASHINGTON

SIZE INVITATION NO. FILE NO. DATE JUNE 2003 G1

DSGON. IGP CHK. YHC SHEET 1

### GENERAL CONSTRUCTION NOTES

- 1. CONSTRUCTOR SHALL FURNISH ALL MATERIALS. EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- 2. THE CONSTRUCTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 3. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE COE AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- 4. THE CONSTRUCTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 5. THE CONSTRUCTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
- 7. CONSTRUCTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 8. THE CONSTRUCTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COE AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COE OR THE ARCHITECT/ENGINEER.
- 9. THE CONSTRUCTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONSTRUCTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
- 10. DETAILS ARE INTENDED TO SHOW FINAL RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB SITE DIMENSIONS OR CONDITIONS. AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

- 11. THE CONSTRUCTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, ROADWAY, DRAINAGE WAYS, CULVERTS, AND VEGETATION UNTIL SUCH ITEMS ARE TO BE DISTURBED OR REMOVED AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- 12. CONSTRUCTOR SHALL KEEP JOB SITE AREA CLEAN.
  HAZARD FREE, AND DIPOSE OF ALL DIRT, DEBRIS,
  RUBBISH AND AT COMPLETION OF PROJECT REMOVE
  ALL MATERIAL AND EQUIPMENT NOT SPECIFIED AS
  REMAINING ON THE PROPERTY.
- 13. REPRESENTATIONS OF TRUE NORTH SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THIS JOB SITE.
- 14. IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. CONSTRUCTOR SHALL CALL LOCAL DIGGER HOTLINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 15. SIZE. LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY THE CONSTRUCTOR AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF THE PROJECT.

### STANDARD CIVIL NOTES

- 1. ALL SITE WORK SHALL BE AS INDICATED ON THE CONSTRUCTION DOCUMENTS, WHICH INCLUDE THE BASIS OF DESIGN REPORT.
- 2. DO NOT EXCAVATE OR DISTURB BEYOND THE JOB SITE AREA, UNLESS NOTED OTHERWISE.
- 3. RUBBISH, DEBRIS, CULVERTS AND OTHER REFUSE SHALL BE REMOVED FROM THE JOB SITE AND DIPOSED OF LEGALLY.
- 4. NO TOP SOIL, ORGANIC SPOILS, FILL, EXCAVATED MATERIAL, RIPRAP, FOUNDATION/BRIDGE MATERIAL, ECUIPMENT OR ANY OTHER SUCH ITEMS SHALL BE PLACED, STOCKPILED OR PARKED IN THE EXISTING ROADWAY SUCH THAT IT WOULD PREVENT A MINIMUM WIDTH OF 12 FEET FOR TRAFFIC CLEARENCE, UNTIL THE NEW BRIDGE AND ROADWAY ARE COMPLETE AND TRAFFIC HAS BEEN REROUTED.
- 5. THE NEW ROADWAY SUBGRADE SHALL BE COMPACTED IN 6" LAYERS AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE ROADBASE APPLICATION.

6. ALL EXISTING ACTIVE SEWER. WATER. GAS. ELECTRIC. AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK. SHALL BE PROTECTED AT ALL TIMES. AND WHERE REOUIRED FOR THE PROPER EXECUTION OF WORK. SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER.

A/E

ΔΙ Τ

ASTM AMERICAN SOCIETY FOR TESTING

AND MATERIALS

CFS CUBIC FEET PER SECOND

CMP CORREGATED METAL PIPE

COE CORPS OF ENGINEERS

CF CUBIC FEET

CP CONTROL POINT

CY CUBIC YARD

EL ELEVATION

(F) FXISTING

EST ESTIMATED

G GRADE (SLOPE)

HHW HIGHER HIGH WATER

IE INVERT ELEVATION

HDPE HIGH DENSITY POLYETHYLENE PIPE

LRFD LOAD RESISTANCE FACTOR DESIGN

GB GRADE BREAK

HOR HORIZONTAL

HW HIGH WATER

LF LINEAR FEET

MTL MEAN TIDE LEVEL

OHW ORDINARY HIGH WATER
PVC POLYVINYL CHLORIDE

SDMH STORM DRAIN MANHOLE
SS SANITARY SEWER
SF SOUARE FEET
STA STATION
SY SOUARE YARD
TBD TO BE DETERMINED

VLF VERTICAL LINEAR FEET

**ABBREVIATIONS** 

NTS NOT TO SCALE

OC ON CENTER

RD ROAD

S SOUTH

(TYP) TYPICAL
U/S UPSTREAM
UG UNDERGROUND
UTL UTILITY
VERT VERTICAL

w west

LS LUMP SUM

MAX MAXIMUM

MIN MINIMUM

FT FEET

GA GAUGE

GAL GALLON

GRN GREEN

LBS POUNDS

DIA DIAMETER
D/S DOWNSTREAM

EA EACH

CONC. CONCRETE

- 7. EXTREME CAUTION SHOULD BE USED BY THE CONSTRUCTOR WHEN EXCAVATING OR PILE DRIVING AROUND OR NEAR UTILITIES. CONSTRUCTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORK CREW.
- 8. ALL INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHICH INTERFERE WITH THE EXECUTION OF WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER.
- 9. THE AREAS OF THE JOB SITE DISTURBED BY THE WORK AND NOT PART OF THE NEW BRIDGE/ROADWAY. SHALL BE GRADED TO A UNIFORM SLOPE AND REVEGETATED AS SPECIFIED HEREON.

### GENERAL STRUCTURAL NOTES

- 1. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED. THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- 2. NOTES AND DETAILS ON THE CONSTRUCTION DOCUMENTS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
- 3. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE CONSTRUCTION DOCUMENTS.
- 4. THE CONTSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONSTRUCTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURES, WORKERS, PEDESTRIANS, AND MOTORIST DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, PARTIALLY COMPLETED WORK, AND DIVERSIONS ETC. OBSERVATION VISITS TO THE JOB SITE BY THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTION OF SUCH ITEMS.
- 5. ASTM SPECIFICATIONS NOTED ON THE CONSTRUCTION DOCUMENTS SHALL BE OF THE LATEST REVISION.

### GENERAL NOTES

	EXISTING GRADE LINES		PROPOSED GRADE LINES	$\bar{\lambda}$	WATER SURFACE
~~~~~~	EXISTING TREELINE		PROPOSED TREELINE	Ę	CENTERL I NE
	EXISTING THALWEG		PROPOSED DRAINAGE SWALE	7	SLOPE
	EXISTING CENTERLINE	++	PROPOSED CONTROL LINE	٧,	LARGE WOODY DEBRIS
	EXISTING FLOWLINE		PROPOSED FLOWLINE	77	LARGE WOOD! DEDRIS
	EXISTING GROUND		PROPOSED GRADING LIMIT		
		<del></del>	PROPOSED SILT FENCE		
		P\$: 75 478: 75 478]	PROPOSED RIPRAP		
			PROPOSED ROADBASE		
			PROPOSED CONCRETE		
			COMPACTED SOIL		
LEGEND					

				ĺ
				ĺ
				ĺ
ASPHALTIC CONCRETE				ĺ
ARCHITECT/ENGINEER				ĺ
ALTERNATE				ĺ
	- 1		ı	1

SYMBOL ZONE

#### NOTES

- 1. DISPLAYED TIDAL DATUMS ARE FROM NOAA TIDAL STATION 9447130 (SEATTLE) WITH SUBORDINATE STATION CORRECTION FACTOR APPLIED.
- THE RELATIONSHIPS BETWEEN GEODETIC AND TIDAL DATUMS WERE COMPUTED FROM NOAA TIDAL BENCH 9447427 (EDMONDS).

REVISIONS

DESCRIPTION

DATE BY

3. ALL ELEVATIONS IN PLAN SET ARE IN NAVD88 UNLESS OTHERWISE NOTED.

NAVD	MLLW	
11.93	14.21	HIGHEST EST TIDE
8.71	10.99	мннш
7.86	10.14	мни
4.20	6.48	MTL
0.54	2.82	ML W
-2.28	0.00	MLLW

NAVD + 2.28 = MLLW

TIDAL DATUM ELEVATIONS

# F

TETRA TECH INC.



U.S. ARMY ENGINEER DISTRICT, SEA CORPS OF ENGINEERS

CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

QUANTITIES, GENERAL NOTES, LEGEND, AND ABBREVIATIONS

KITSAP COUNTY, WASHINGTON

### GENERAL NOTES

- SOUTH KINGSTON BRIDGE SHALL BE CONSTRUCTED IN TWO PHASES IN ORDER TO MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC AT ALL TIMES
- 2. WEST KINGSTON ROAD MAY BE CLOSED TO THROUGH TRAFFIC FOR DURATION OF WEST KINGSTON BRIDGE CONSTRUCTION
- 3. CONTRACTOR SHALL SUBMIT CONSTRUCTION SEQUENCE PLAN FOR REVIEW BY

### SUGGESTED CONSTRUCTION SEQUENCE SOUTH KINGSTON ROAD

- -INSTALL TRAFFIC SIGNS, TEMPORARY SIGNALS AND TRAFFIC CONTOL MEASURES
- -INSTALL BARRIERS AND SAFETY MEASURES TO ROUTE TRAFFIC TO NORTH BOUND LANE
- -CLOSE SOUTH BOUND LANE TO TRAFFIC
- -PREPARE SOUTH BOUND LANE FOR CAISSON DRILLING
- -DRILL CAISSON FOUNDATION AT EACH LOCATION FOR SOUTH BOUND LANE
- -INSTALL STEEL CASING IN BOTH DRILL HOLES TO APPROXIMATELY 1-FOOT BELOW ROADWAY SURFACE
- -EXPORT AND DISPOSE OF UN-SUITABLE MATERIAL
- -PLACE REINFORCING STEEL CAGE IN BOTH CAISSON DRILL HOLES
- -POUR STRUCTURE CONCRETE UP TO BOTTOM OF ABUTMENT CAP
- -FILL THE REST OF THE DRILL HOLES WITH CONTROL DENSITY FILL (CDF) MATERIAL TO THE ROADWAY
- SURFACE, COVER WITH STEEL PLATE AS REQUIRED
- -MODIFY TRAFFIC SIGNS, TEMPORARY SIGNALS AND TRAFFIC CONTOL MEASURES TO ROUTE
- TRAFFIC BACK TO SOUTH BOUND LANE
- -ROUTE TRAFFIC TO SOUTH BOUND LANE AND CLOSE NORTH BOUND LANE
- -INSTALL TEMPORARY COFFERDAM, SILT FENCE AND EROSION CONTROL MEASURES AROUND NEW STORM DRAIN OUTFALL CONSTRUCTION AREA
- -INSTALL NEW STORM DRAIN MANHOLE, PIPE AND OUTFALL AT LOW TIDE
- -PREPARE NORTH BOUND LANE FOR CAISSON DRILLING
- -DRILL CAISSON FOUNDATION AT EACH LOCATION FOR NORTH BOUND LANE
- -INSTALL STEEL CASING IN BOTH DRILL HOLES TO APPROXIMATELY 1-FOOT BELOW ROADWAY SURFACE
- -EXPORT AND DISPOSE OF UN-SUITABLE MATERIAL
- -PLACE REINFORCING STEEL CAGE IN BOTH CAISSON DRILL HOLES
- -POUR STRUCTURE CONCRETE UP TO BOTTOM OF ABUTMENT CAP
- -FILL THE REST OF THE DRILL HOLES WITH CONTROL DENSITY FILL (CDF) MATERIAL TO THE ROADWAY SURFACE, COVER WITH STEEL PLATE AS REQUIRED
- -INSTALL COFFERDAM, SILT FENCING AND EROSION CONTROL MEASURES AROUND BRIDGE CONSTRUCTION
- AREA ON BOTH SIDES OF THE ROADWAY AT LOW TIDE, UTILIZE EXISTING CULVERT AS BYPASS
- -INSTALL SHORING ALONG CENTER OF ROADWAY AS REQUIRED, UTILIZE SHALLOW SHORING MEASURES
  AT EXISTING CULVERT
- -EXCAVATE NORTH BOUND LANE EMBANKMENT WITHIN COFFERDAM
- -DEWATER CONSTRUCTION SITE WITH PUMPS AND DESILTING MEASURES
- -EXPORT AND DISPOSE OF UN-SUITABLE MATERIAL OR EXCESS
- -DEMOLISH AND DISPOSE OF EXISTING STORM DRAIN MANHOLE, PIPE, AND OUTFALL
- -MODIFY SHORING AT CAISSON FOUNDATION TO ACCOMMODATE REINFORCING STEEL REQUIRED FOR
- -SET FORMS AND REINFORCING STEEL FOR ABUTMENT CAP AND POUR STRUCTURE CONCRETE
- -DEMOLISH TOP SECTION OF EXISTING BOX CULVERT UNDER NORTH BOUND LANE FOR GIRDER CLEARANCE, BRACE INTERNALLY AS REQUIRED
- -CONSTRUCT CHANNEL IMPROVEMENTS AND PLACE CHANNEL PROTECTION AT BRIDGE FOUNDATIONS AND
- ROADWAY EMBANKMENTS UNDER AND AROUND NORTH BOUND LANE, WITHIN COFFERDAM
- -CONSTRUCT CHANNEL IMPROVEMENTS AND PLACE CHANNEL PROTECTION AT BRIDGE FOUNDATION AND AND ROADWAY EMBANKMENTS OUTSIDE OF COFFERDAM AT LOW TIDE
- -MULCH ALL BARE SURFACES AND EMBANKMENTS WITHIN 48 HOURS OF FINAL GRADING
- -INSTALL BEARING PADS AND CONCRETE GIRDERS ON NORTH BOUND LANE
- -RELOCATE UTILITIES TO BRIDGE AS REQUIRED
- -INSTALL BRIDGE CONNECTIONS, DIAPHRAGMS, AND OUTSIDE TRAFFIC BARRIER ON NORTH BOUND LANE
- -CONSTRUCT NORTH BOUND ROADWAY APPROACHES TO BRIDGE
- -INSTALL MEDIAN BARRIER AND SAFETY MEASURES ON ROAD AND BRIDGE
- -MODIFY TRAFFIC SIGNS. TEMPORARY SIGNALS AND TRAFFIC CONTOL MEASURES
- -ROUTE TRAFFIC TO NORTH BOUND LANE AND CLOSE SOUTH BOUND LANE
- -MODIFY SHORING AT ROADWAY APPROACHES AND AT CAISSON FOUNDATION TO ACCOMMODATE FORMS
- FOR CAISSON AND ABUTMENT CAP
- -EXCAVATE SOUTH BOUND LANE EMBANKMENT WITHIN COFFERDAM
- -REMOVE SHORING BETWEEN ABUTMENT CAPS
- -EXPORT AND DISPOSE OF UN-SUITABLE MATERIAL OR EXCESS
- -SET FORMS AND REINFORCING STEEL FOR ABUTMENT CAP AND POUR STRUCTURE CONCRETE
- -DEMOLISH TOP SECTION OF EXISTING BOX CULVERT UNDER SOUTH BOUND LANE FOR GIRDER CLEARANCE.
  BRACE INTERNALLY AS REQUIRED
- -CONSTRUCT CHANNEL IMPROVEMENTS AND PLACE CHANNEL PROTECTION AT BRIDGE FOUNDATIONS AND
- ROADWAY EMBANKMENTS UNDER AND AROUND SOUTH BOUND LANE, WITHIN COFFERDAM
- -CONSTRUCT CHANNEL IMPROVEMENTS AND PLACE CHANNEL PROTECTION AT BRIDGE FOUNDATION AND ROADWAY EMBANKMENTS OUTSIDE OF COFFERDAM AT LOW TIDE
- -MULCH ALL BARE SURFACES AND EMBANKMENTS WITHIN 48 HOURS OF FINAL GRADING
- -INSTALL BEARING PADS AND CONCRETE GIRDERS ON SOUTH BOUND LANE

- -RELOCATE UTILITIES TO BRIDGE AS REQUIRED
- -INSTALL BRIDGE CONNECTIONS, DIAPHRAGMS, AND OUTSIDE TRAFFIC BARRIER ON SOUTH BOUND LANE
- -REMOVE REMAINING SHORING MEASURES
- TEMOTE REMAINING SHORTING MEMOCRES
- -CONSTRUCT SOUTH BOUND ROADWAY APPROACHES TO BRIDGE
- -REMOVE MEDIAN BARRIER AND SAFETY MEASURES ON ROAD AND BRIDGE -PROVIDE TRAFFIC CONTROL AS REQUIRED TO FINISH ROADWAY AND CHANNEL
- -PLACE FINAL ASPHALT TO ROADWAY APPROACHES AND BRIDGE GIRDERS
- -RE-STRIP ROADWAY
- -REMOVE ALL WASTE MATERIAL FROM SITE
- -REMOVE DEWATERING MEASURES AND COFFERDAM AT LOW TIDE
- -DEMOLISH AND DISPOSE OF REMAINING BOX CULVERT
- -CONSTRUCT FINAL GRADING IMPROVEMENTS UNDER BRIDGE AT LOW TIDE
- -MODIFY SILT FENCING FOR FILLING SCOUR HOLE IMPROVEMENTS AT LOW TIDE
- -IMPORT SUITABLE MATERIAL TO FILL SCOUR HOLES TO WITHIN 5' OF FINISHED GRADE AT LOW TIDE
- -EXCAVATE SEDIMENT DEPOSITS AROUND UPSTREAM SCOUR HOLE AND PLACE IN
- SCOUR HOLE TO FILL REMAINING PORTION UP TO FINISHED GRADE
- -REVEGETATE ROADWAY EMBANKMENTS
- -REMOVE TRAFFIC SIGNS, TEMPORARY SIGNALS AND TRAFFIC CONTOL MEASURES
- -ROUTE TRAFFIC BACK TO BOTH LANES

## SUGGESTED CONSTRUCTION SEQUENCE WEST KINGSTON ROAD

- -INSTALL TRAFFIC SIGNS AND TRAFFIC CONTOL MEASURES
- -DETOUR TRAFFIC AND CLOSE ROADWAY TO TRAFFIC
- -INSTALL COFFERDAM. SILT FENCING AND EROSION CONTROL MEASURES AROUND BRIDGE
- CONSTRUCTION AREA ON BOTH SIDES OF THE ROADWAY AT LOW TIDE
- -EXCAVATE ROADWAY EMBANKMENT, DEMOLISH AND DISPOSE OF EXISTING CONCRETE CULVERT
- -INSTALL BYPASS PIPE THROUGH EXCAVATED ROADWAY EMBANKMENT
- -DEWATER CONSTRUCTION SITE WITH PUMPS AND DESILTING MEASURES
- -EXCAVATE EMBANKMENT AND PREPARE FOR PILE DRIVING BOTH FOUNDATIONS
- -EXPORT AND DISPOSE OF EXCESS MATERIAL
- -MULCH ALL BARE SURFACES AND EMBANKMENTS WITHIN 48 HOURS OF FINAL GRADING
- -DRIVE PILES FOR BOTH FOUNDATIONS
- -SET FORMS AND REINFORCING STEEL FOR PILE CAPS AND POUR STRUCTURE CONCRETE
- -CONSTRUCT TEMPORARY ACCESS ROAD TO THE HISTORIC ROADBED LOCATION
- -EXCAVATE HISTORIC ROADBED AT LOW TIDE
- -EXPORT AND DISPOSE OF EXCESS MATERIAL
- -REMOVE TEMPORARY ACCESS ROAD
- -CONSTRUCT CHANNEL IMPROVEMENTS AND PLACE CHANNEL PROTECTION AT BRIDGE
- FOUNDATIONS AND ROADWAY EMBANKMENTS
- -INSTALL BEARING PADS AND CONCRETE GIRDERS
  -RELOCATE UTILITIES TO BRIDGE AS REQUIRED
- -INSTALL BRIDGE CONNECTIONS DIABEDACMS
- -INSTALL BRIDGE CONNECTIONS, DIAPHRAGMS, AND OUTSIDE TRAFFIC BARRIERS
- -CONSTRUCT ROADWAY APPROACHES TO BRIDGE
- -PLACE FINAL ASPHALT TO ROADWAY APPROACHES AND BRIDGE GIRDERS
- -RE-STRIP ROADWAY
- -REMOVE ALL WASTE MATERIAL FROM SITE
- -CONSTRUCT FINAL GRADING IMPROVEMENTS UNDER BRIDGE
- -REMOVE DEWATERING MEASURES, BYPASS PIPES AND COFFERDAM AT LOW TIDE
- -REVEGETATE ROADWAY EMBANKMENTS, TEMPORARY ACCESS ROAD, HISTORIC ROADBED AND AREA SOUTH OF ROADWAY
- -REMOVE TRAFFIC SIGNS AND TRAFFIC CONTOL MEASURES
- -ROUTE TRAFFIC BACK TO ROAD

	REVISIONS						
SYMBOL	ZONE	DESCRIPTION	DATE	BY			
			[				

### SUGGESTED CONSTRUCTION SEQUENCE LARGE WOODY DEBRIS

-PLACE LARGE WOODY DEBRIS FROM ROADWAY TRANSPORT INTO ESTUARY AT HIGH TIDE

-FLOAT LARGE WOODY DEBRIS TO PLACEMENT LOCATION

-INSTALL DUCKBILL ANCHORS AND CONNECT TO LARGE WOODY DEBRIS WITH CABLES

FŁ

TETRA TECH INC.
SEATTLE- WASHINGTON

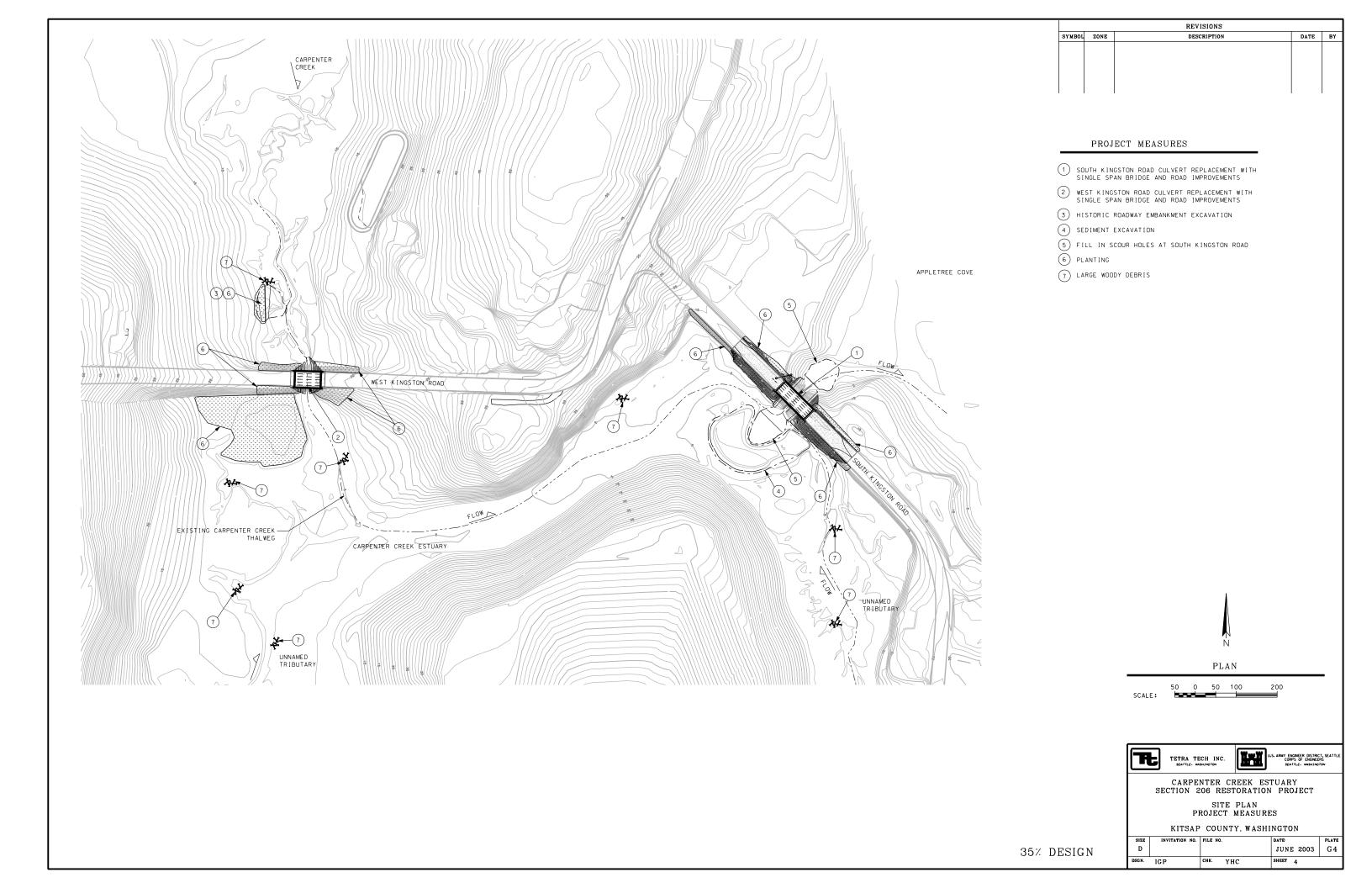


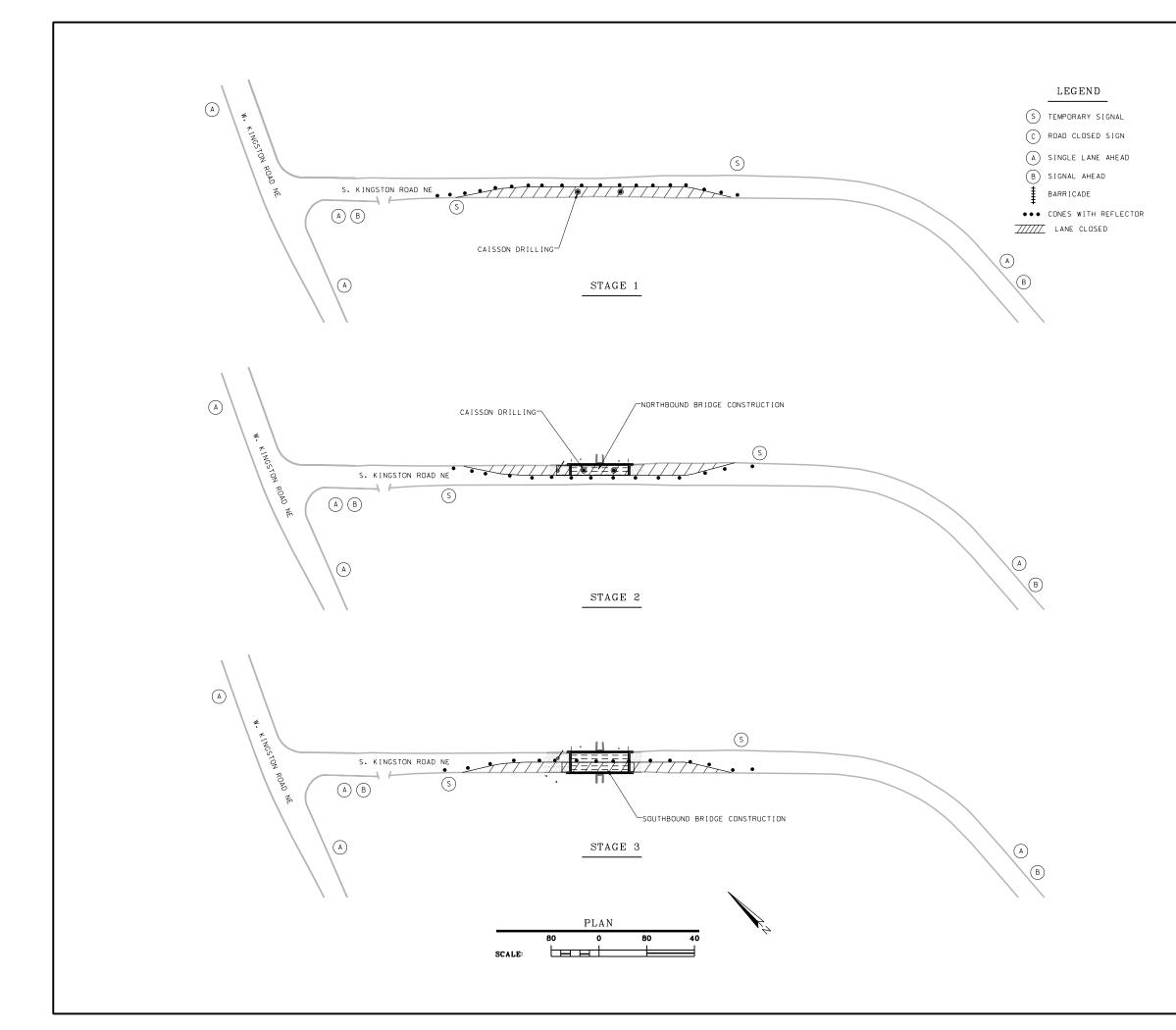
CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

CONSTRUCTION SEQUENCE NOTES

KITSAP COUNTY, WASHINGTON

CONSTRUCTION SEQUENCE NOTE.





SYMBOL	ZONE	DESCRIPTION	DATE	B'
				l

### TRAFFIC CONTROL GENERAL NOTES

- ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO THE LATEST TRAFFIC MANUAL
- 2. ALL SIGNING AND STRIPING SHALL CONFORM TO THE LATEST TRAFFIC MANUAL STANDARD PLANS AND SPECIFICATIONS AND THE KITSAP COUNTY GUIDELINES
- 3. CONSTRUCTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES.
  ALL PRIVATE DRIVEWAYS AND SIDE STREETS SHALL BE KEPT OPEN AT ALL
  TIMES EXCEPT WHEN CONSTRUCTION TAKES PLACE DIRECTLY IN FRONT OF
  THE DRIVEWAY/SIDE STREET. ALL OPEN EXCAVATIONS ON PUBLIC STREETS
  SHALL BE BACK-FILLED OR STEEL-PLATED (ANTI-SKID PLATES) FOR
  TRAFFIC TO THE SATISFACTION OF COUNTY ENGINEER OUTSIDE THE WORKING
  HOURS. TRAFFIC SHALL BE RESTORED TO NORMAL CONDITIONS DURING
  NON-WORKING HOURS.
- 4. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
- 5. CONSTRUCTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- 6. WHEN CONSTRUCTION IS NOT BEING PERFORMED, ALL ROADWAYS SHALL BE RETURNED TO THEIR FULL TRAFFIC USAGE BY PLATING OR BACKFILLING THE OPEN TRENCHES, AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOUR.
- 7. ALL TUBULAR DELINEATORS SHALL BE 36" MINIMUM HEIGHT AND CONES SHALL BE 28" MINIMUM HEIGHT AND SHALL INCLUDE 12" HIGH INTENSITY REFLECTORIZED SLEEVE.
- 8. CONSTRUCTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BY THE KITSAP COUNTY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
- NO WORK SHALL BEGIN BEFORE 8:30AM OR CONTINUE AFTER 3:30PM ON ARTERIAL STREETS.
- 10. NO WORK IS PERMITTED ON SUNDAYS OR HOLIDAYS UNLESS APPROVED BY THE COUNTY ENGINEER.
- 11. CONSTRUCTOR SHALL RESTORE ANY AND ALL STRIPING. PAVEMENT MARKINGS AND TRAFFIC SIGNAL LOOPS DAMAGED OR REMOVED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY ENGINEER.
- 12. CONSTRUCTOR SHALL COORDINATE WITH KITSAP COUNTY AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO THE STARTING OF TRAFFIC CONTROL DELINEATION.
- 13. ARROW BOARDS SHALL BE USED ON ANY LANE CLOSURES ON ARTERIAL STREETS.
- 14. COUNTY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. EXACT LOCATION OF ALL EQUIPMENT AND TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
- 15. FOR DELINEATION TO INDICATE THE NEW REQUIRED VEHICLE PATH, USE PRESSURE SENSITIVE TRAFFIC MARKING TAPE AND/OR TYPICAL STRIPING PAINT AND/OR RAISED PAVEMENT MARKERS TO SUPPLEMENT THE CHANNELIZING DEVICES, DELINEATORS, REFLECTORIZED SIGNS, AND BARRICADES. TAPE MARKINGS SHALL CLEARLY REPRESENT LANE MARKING.
- 16. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
- 17. FIVE FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OPEN EXCAVATION AND ADJACENT MOVING TRAFFIC LANE.
- 18. CONSTRUCTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY ENGINEER.



TETRA TECH INC.
SEATTLE- WASHINGTON

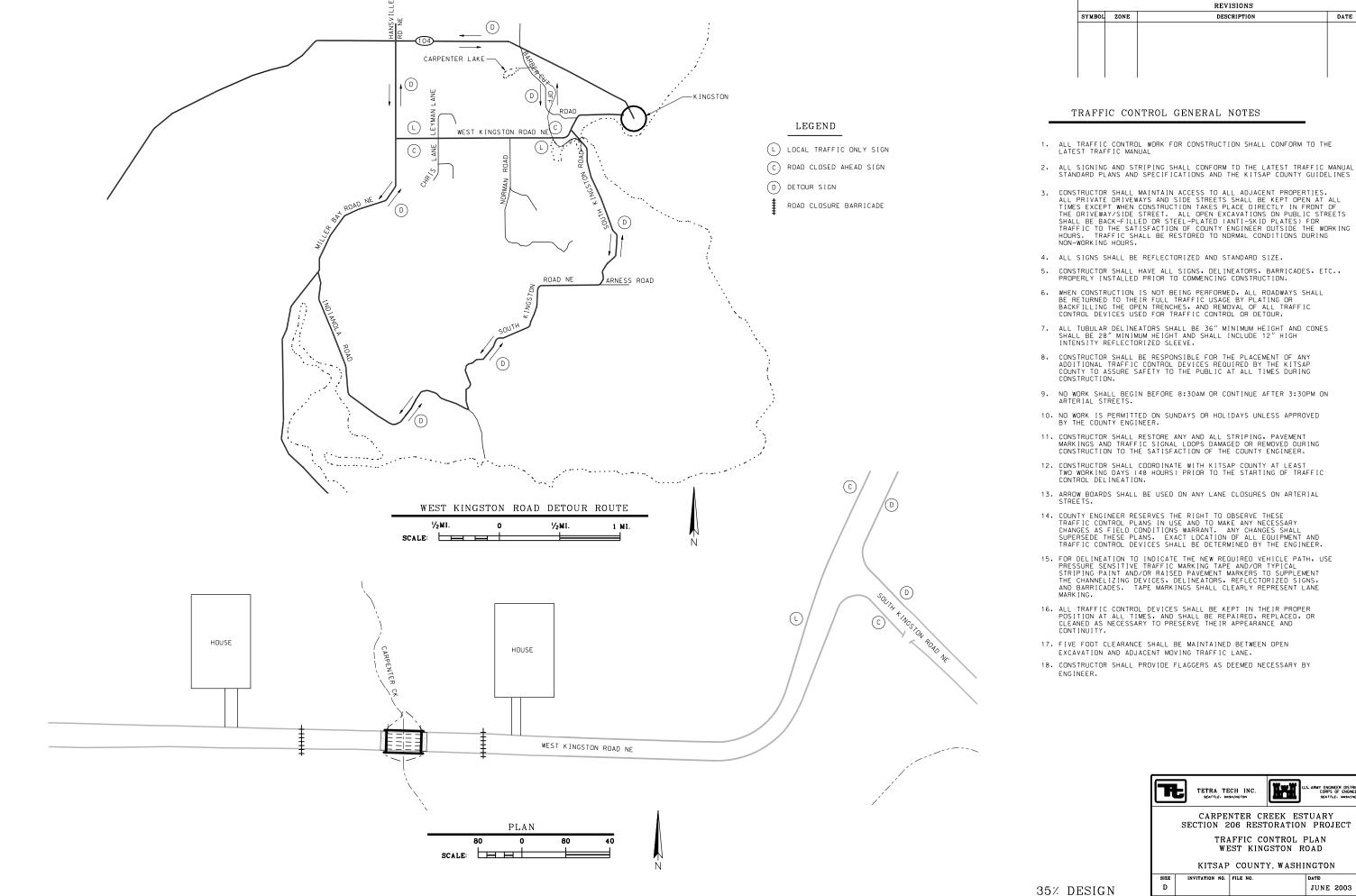


U.S. ARMY ENGINEER DISTRICT, SEA

CARPENTER CREEK ESTUARY
SECTION 206 RESTORATION PROJECT
TRAFFIC CONTROL PLAN
SOUTH KINGSTON ROAD

KITSAP COUNTY, WASHINGTON

		· · · · · · · · · · · · · · · · · · ·		
SIZE	INVITATION NO.	FILE NO.	DATE:	PLATE
D			JUNE 2003	Т1
DSGN.	IGP	снк. ҮНС	SHEET 5	



DATE BY

- CONSTRUCTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES.
  ALL PRIVATE DRIVEWAYS AND SIDE STREETS SHALL BE KEPT OPEN AT ALL
  TIMES EXCEPT WHEN CONSTRUCTION TAKES PLACE DIRECTLY IN FRONT OF
  THE DRIVEWAY/SIDE STREET. ALL OPEN EXCAVATIONS ON PUBLIC STREETS
  SHALL BE BACK-FILLED OR STEEL-PLATED (ANTI-SKID PLATES) FOR
  TRAFFIC TO THE SATISFACTION OF COUNTY ENGINEER OUTSIDE THE WORKING
  HOURS. TRAFFIC SHALL BE RESTORED TO NORMAL CONDITIONS DURING
  NON-WORKING HOURS.

- 15. FOR DELINEATION TO INDICATE THE NEW REQUIRED VEHICLE PATH, USE PRESSURE SENSITIVE TRAFFIC MARKING TAPE AND/OR TYPICAL STRIPING PAINT AND/OR RAISED PAVEMENT MARKERS TO SUPPLEMENT THE CHANNELIZING DEVICES, DELINEATORS, REFLECTORIZED SIGNS, AND BARRICADES. TAPE MARKINGS SHALL CLEARLY REPRESENT LANE

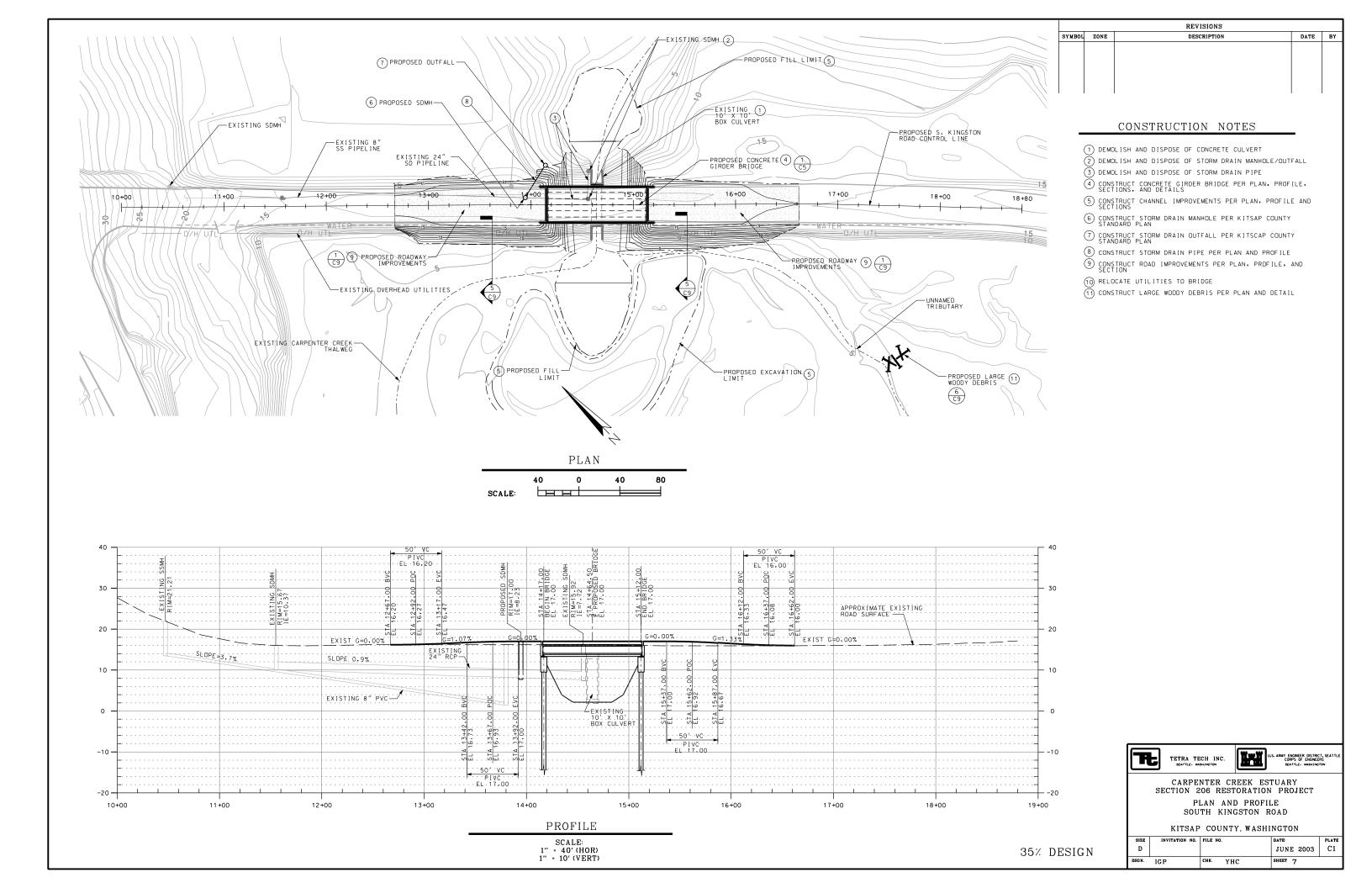


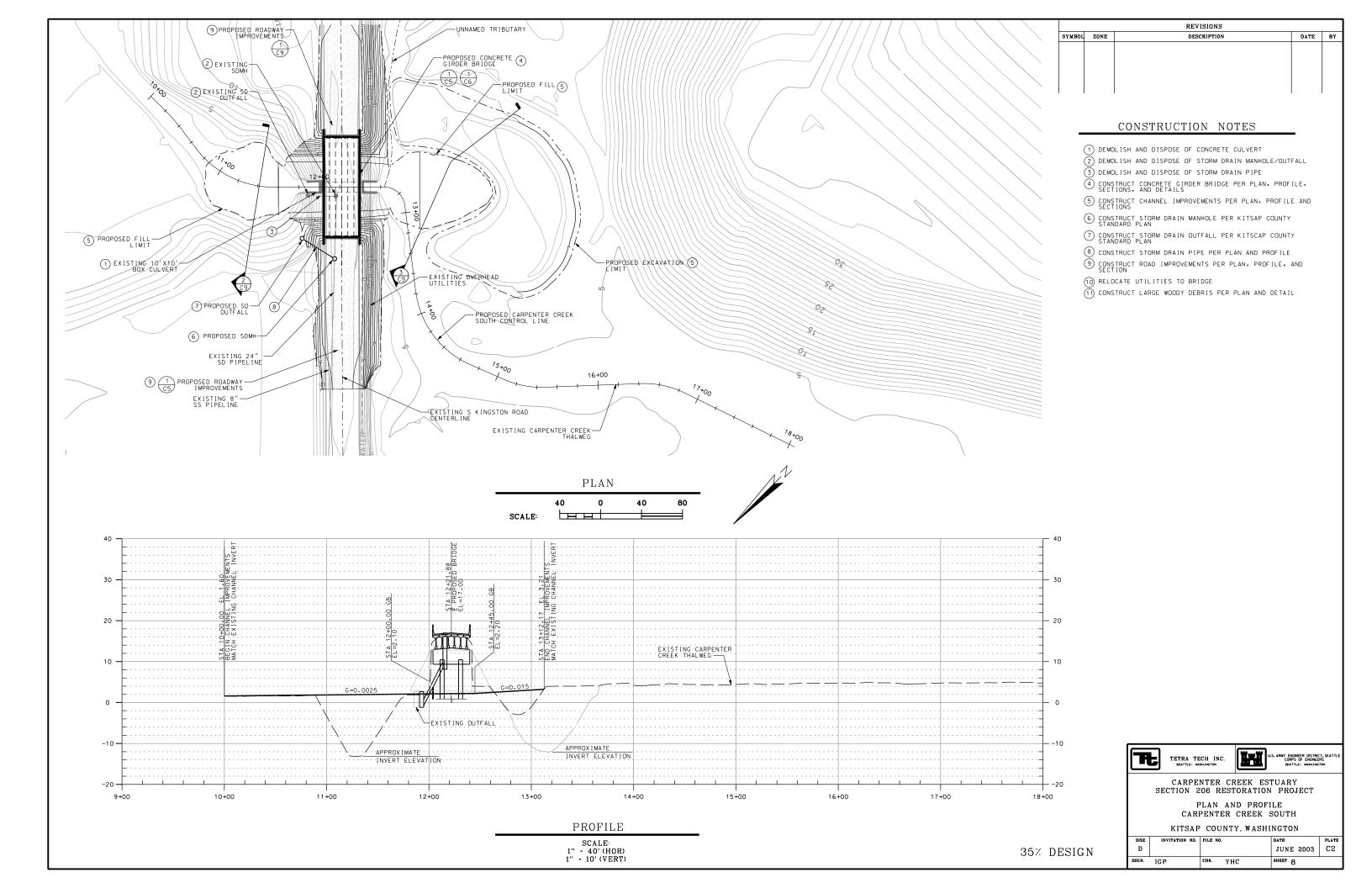
CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

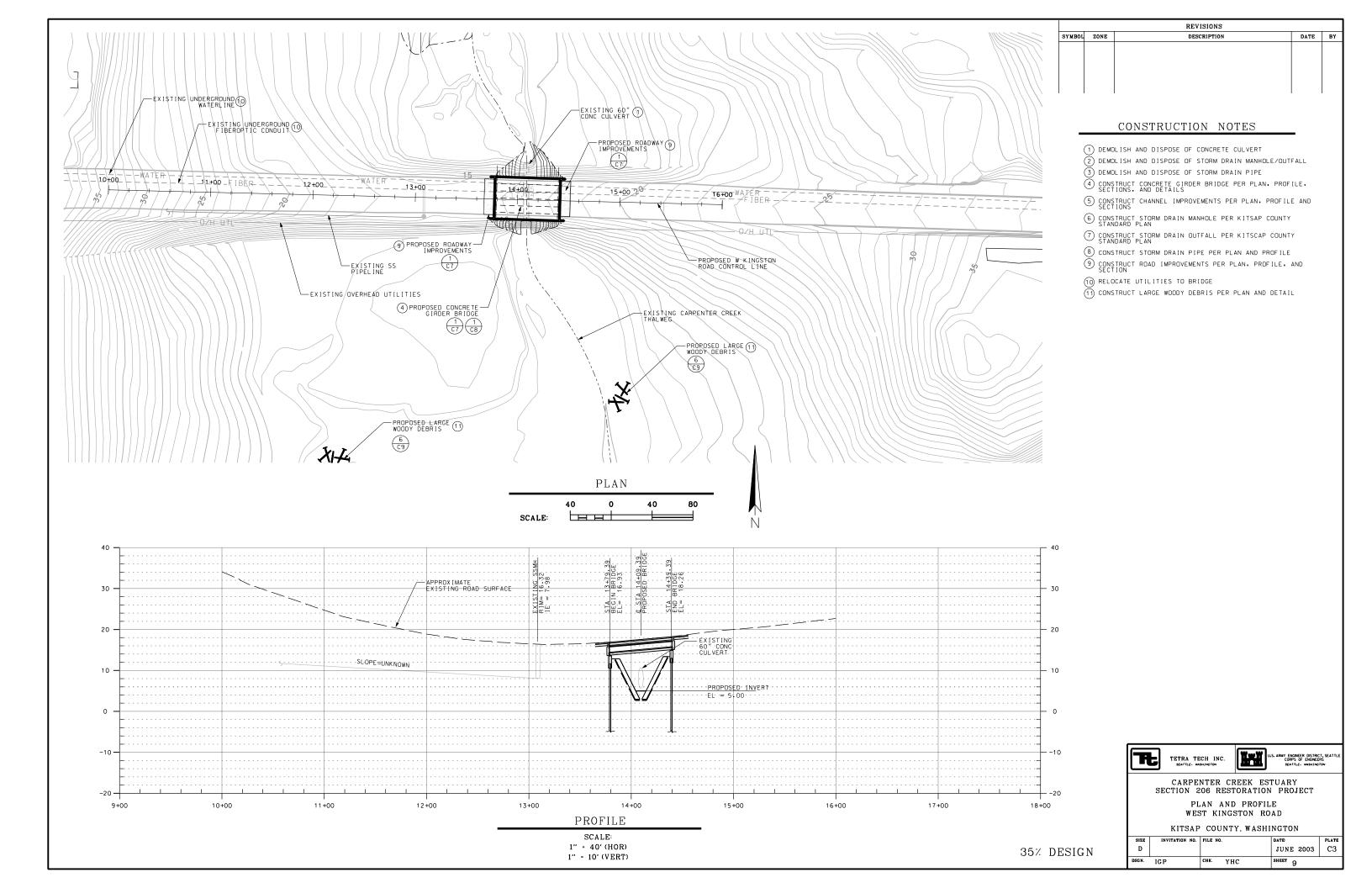
TRAFFIC CONTROL PLAN WEST KINGSTON ROAD

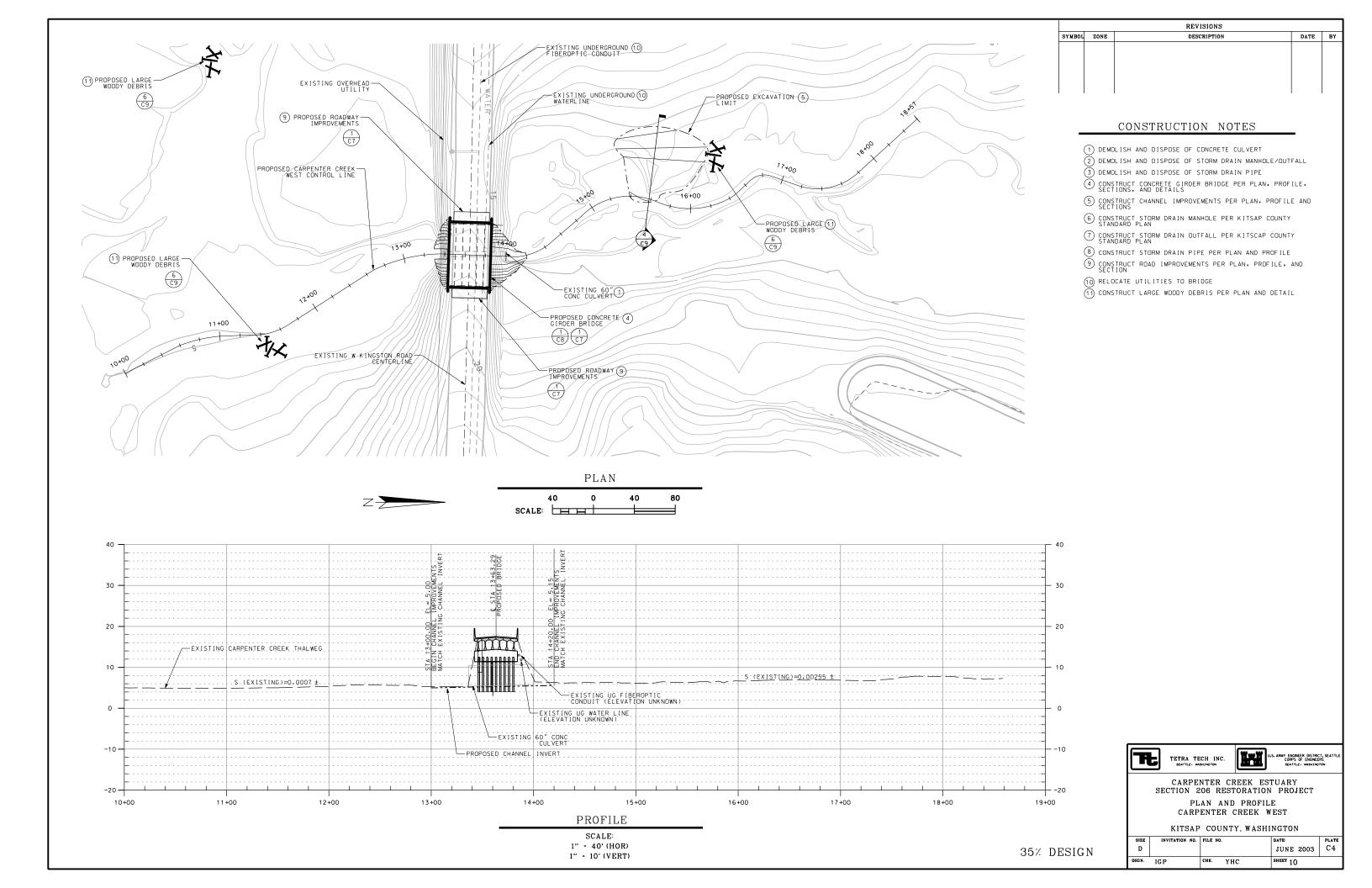
KITSAP COUNTY, WASHINGTON

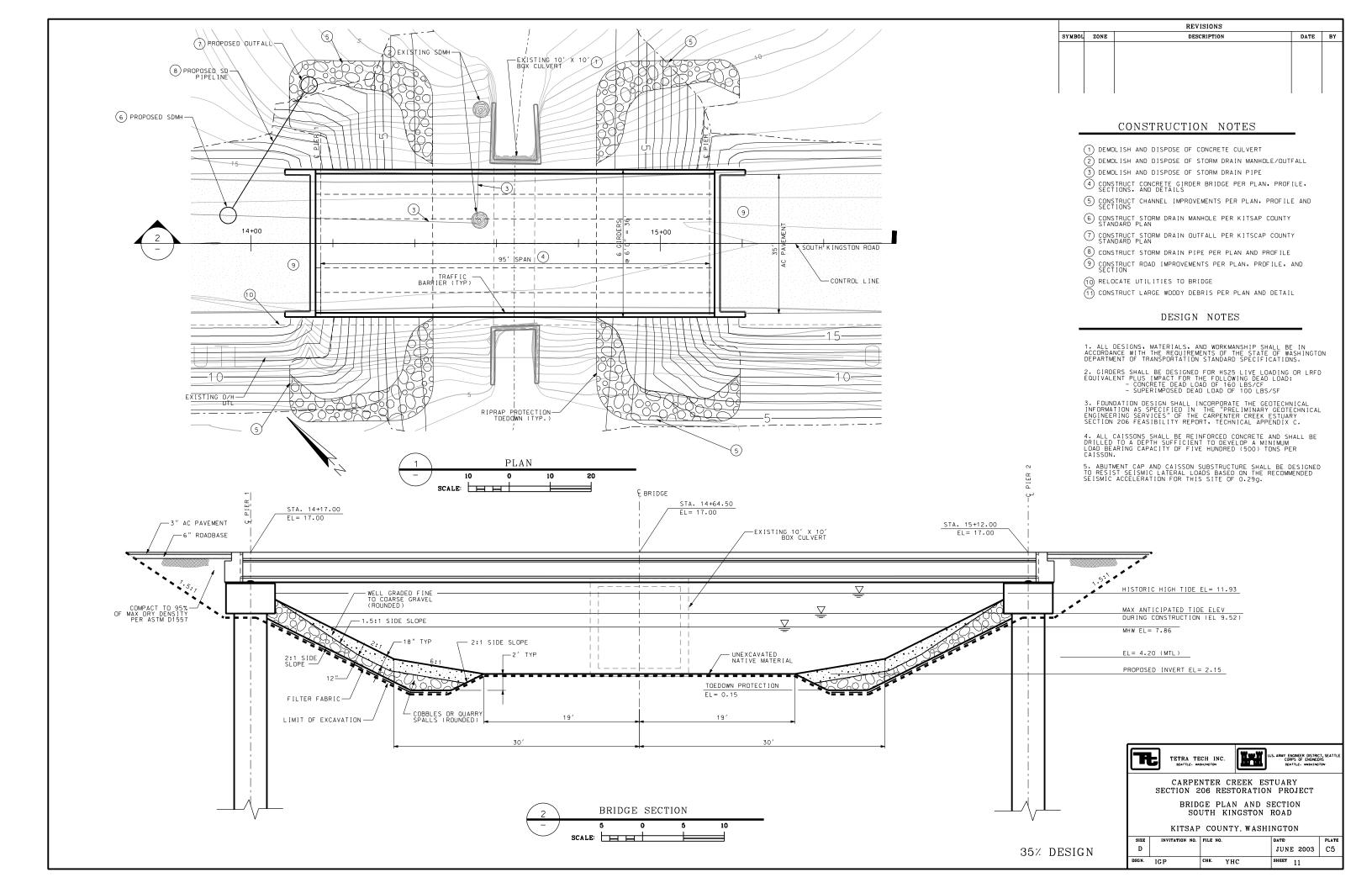
JUNE 2003 T2 SHEET 6 IGP СНК. YHC

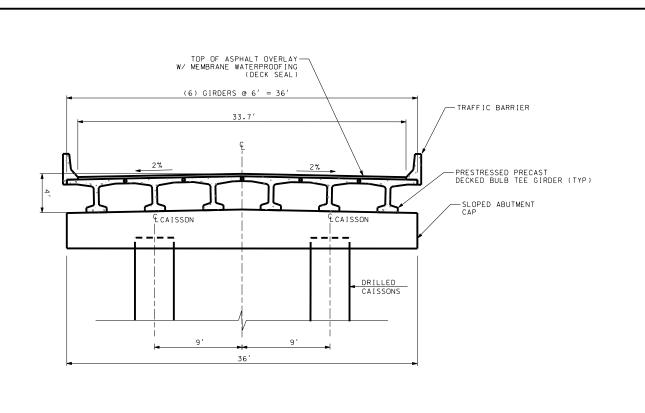


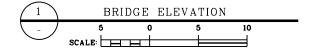


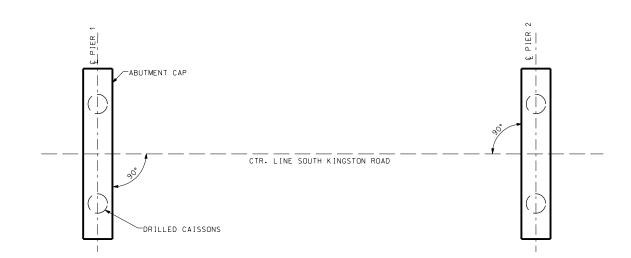


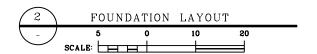


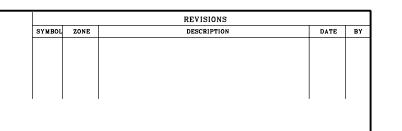


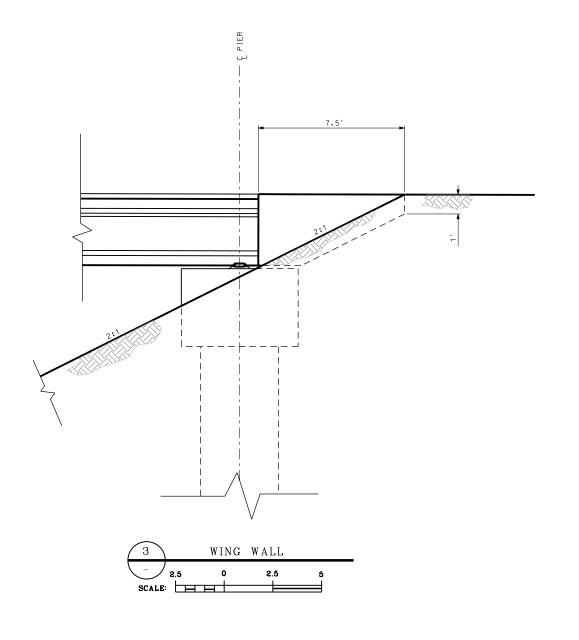














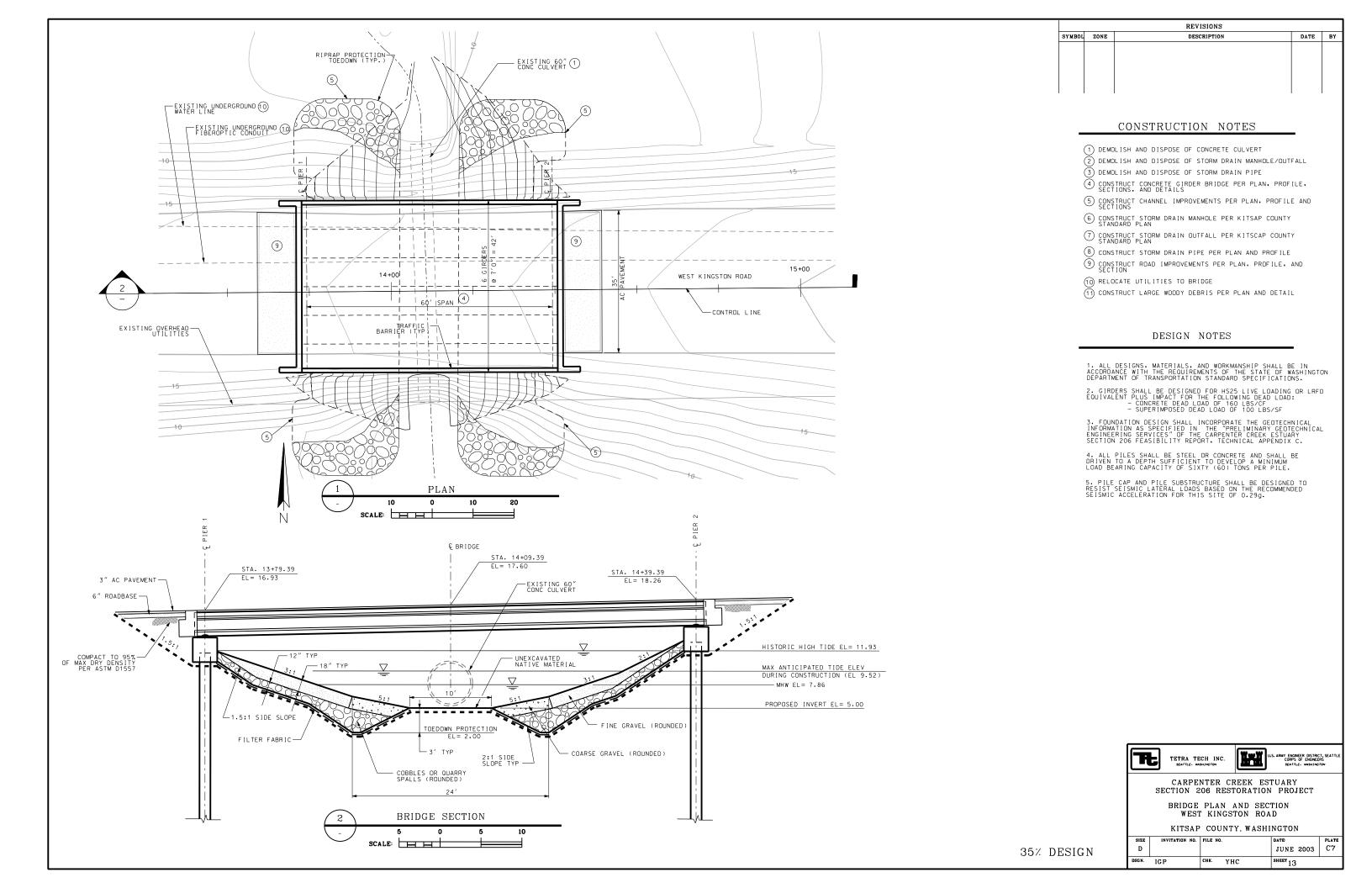
TETRA TECH INC.



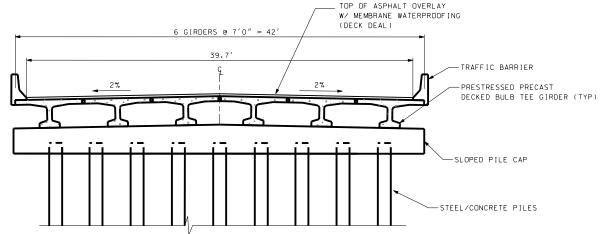
CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT BRIDGE ELEVATION AND FOUNDATION LAYOUT SOUTH KINGSTON ROAD

KITSAP COUNTY, WASHINGTON

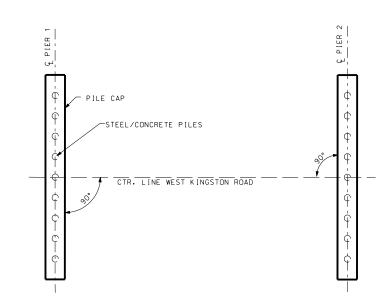
size D JUNE 2003 C6 INVITATION NO. FILE NO. снк. ҮНС SHEET 12

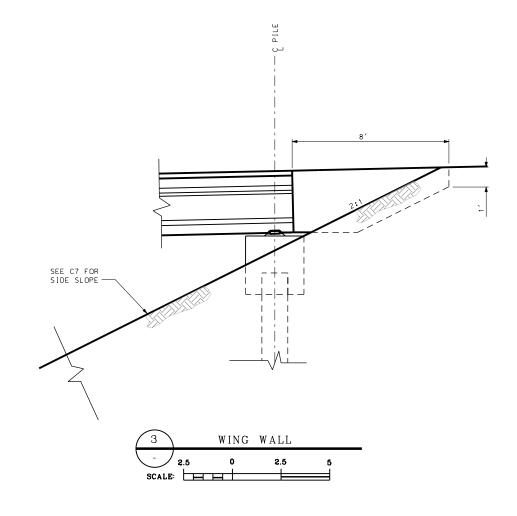






BRI	DGE EL	EVATION	V	
 5 SCALE:	o H	5	10	









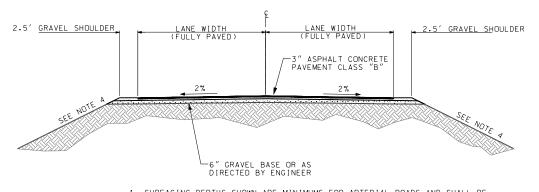
TETRA TECH INC.



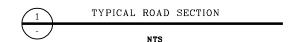
CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT BRIDGE ELEVATION AND FOUNDATION LAYOUT WEST KINGSTON ROAD

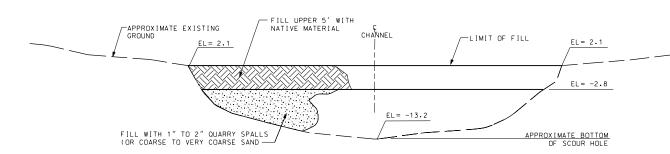
KITSAP COUNTY, WASHINGTON

SIZE	INVITATION NO.	FILE NO.	DATE:	PLATE
D			JUNE 2003	С8
DSGN.	IGP	снк. ҮНС	SHEET 14	

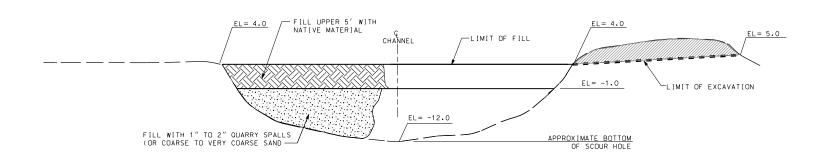


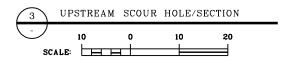
- 1. SURFACING DEPTHS SHOWN ARE MINIMUMS FOR ARTERIAL ROADS AND SHALL BE DESIGNED WITH A STRUCTURAL SECTION THAT TAKES INTO ACCOUNT THE LOAD BEARING CAPACITY OF THE SOILS AND THE TRAFFIC CARRYING REQUIREMENTS OF THE ROADWAY. PLANS SHALL BE ACCOMPANIED BY THE SOILS AND TRAFFIC ANALYSIS ON WHICH THE DESIGN IS BASED.
- 2. WHEN NATIVE SUBGRADE MATERIAL MEETS THE SPECIFICATIONS FOR GRAVEL BASE. THE 6" GRAVEL BASE COURSE CAN BE ELIMINATED OR SUBSTITUTED WITH A LESSER THICKNESS OF GRAVEL BASE OR EQUIVALENT MATERIAL.
- 3. CURED SECTION SHALL BE USED IN ALL URBAN AREAS UNLESS A DEVIATION IS APPROVED.
- 4. SIDE SLOPES SHALL BE CONSTRUCTED NO STEEPER THAN 2:1 FOR LOCAL ACCESS AND 4:1 FOR ARTERIALS ON BOTH FILL AND CUT SLOPES, UNLESS A TRAFFIC BARRIER IS PROVIDED.
- 5. FUNCTIONAL CLASSIFICATION AND EXISTING ADT DEFINED BY KCDPW TRAFFIC TRANSPORTATION DIVISION.
- 6. RIGHT-OF-WAY WIDTHS SHALL BE INCREADSED AS NECESSARY TO ACCOMMODATE ADDITIONAL LANES.

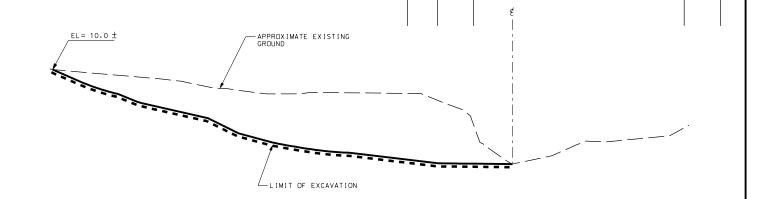




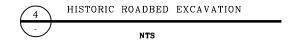


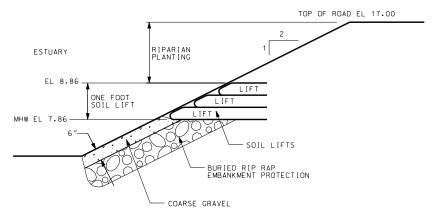


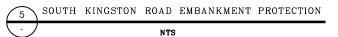


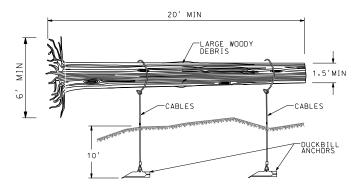


SYMBOL ZONE









LARGE WOODY DEBRIS ANCHORING DETAIL



TETRA TECH INC.

REVISIONS

DESCRIPTION

DATE BY

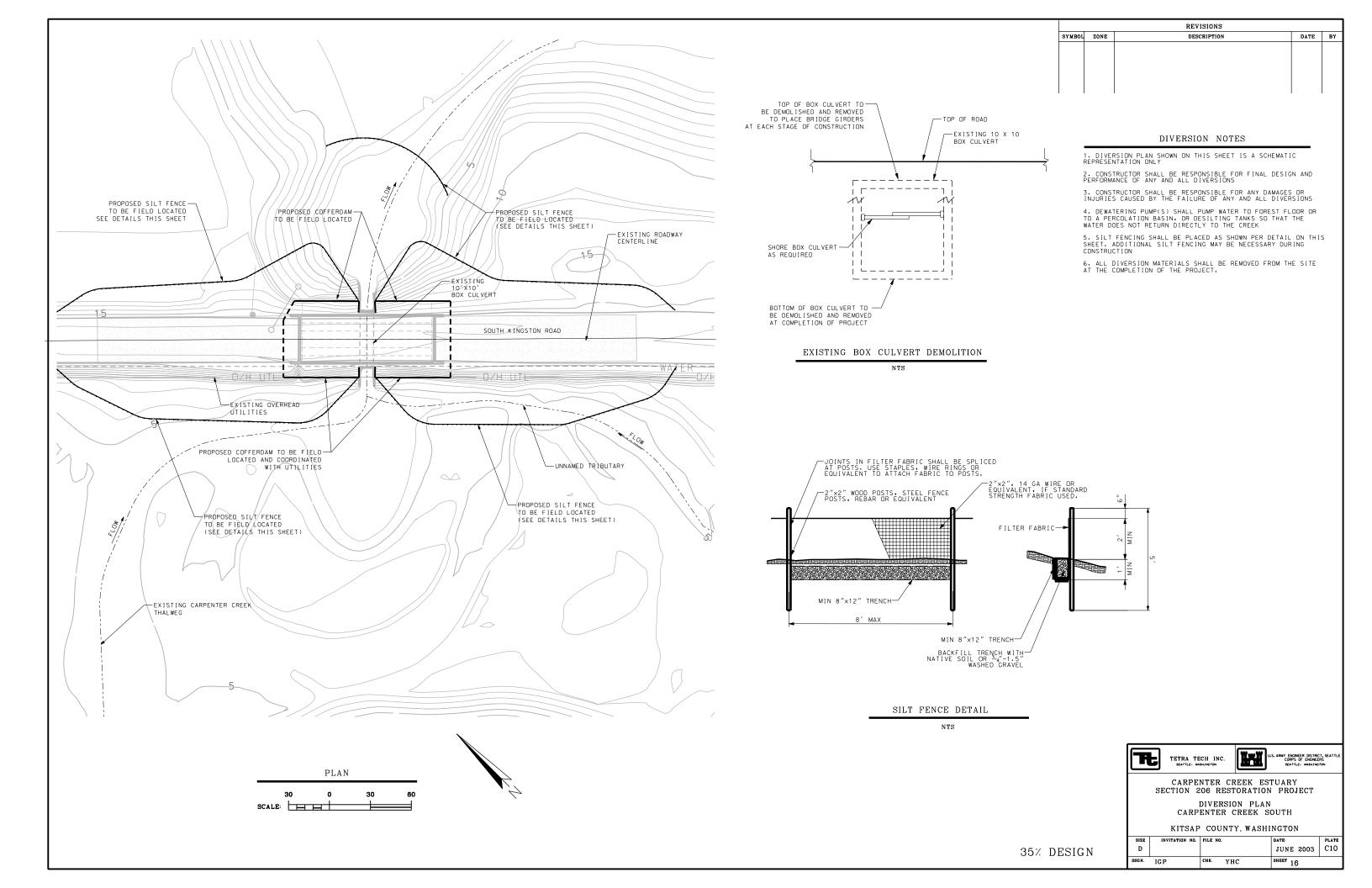


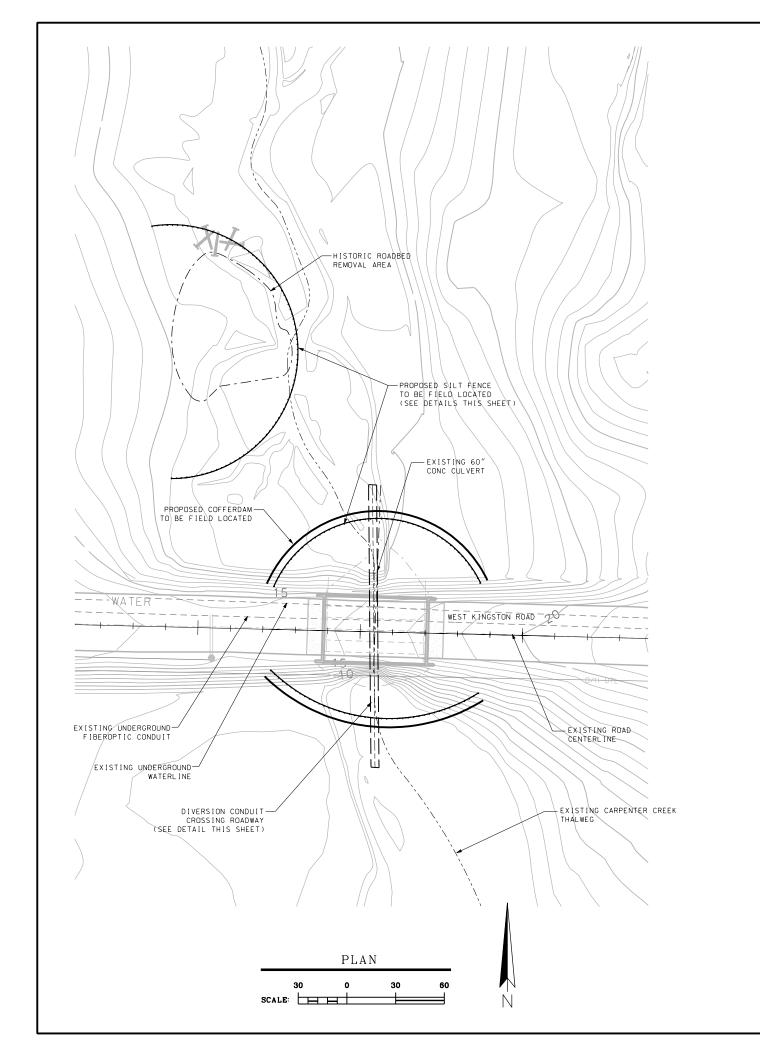
CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

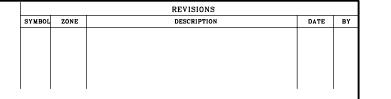
> CHANNEL AND ROAD DETAILS

KITSAP COUNTY, WASHINGTON

JUNE 2003 C9 size D SHEET 15 сик. ҮНС







### DIVERSION NOTES

1. DIVERSION PLAN SHOWN ON THIS SHEET IS A SCHEMATIC REPRESENTATION ONLY

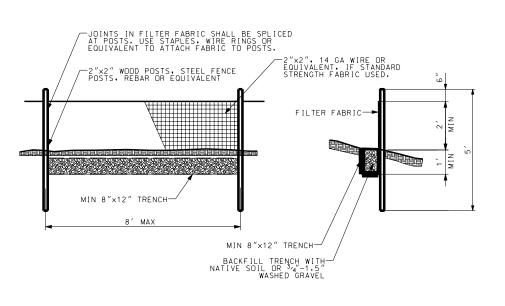
2. CONSTRUCTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND PERFORMANCE OF ANY AND ALL DIVERSIONS

3. CONSTRUCTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES OR INJURIES CAUSED BY THE FAILURE OF ANY AND ALL DIVERSIONS

4. DEWATERING PUMP(S) SHALL PUMP WATER TO FOREST FLOOR. TO A PERCOLATION BASIN, OR DESILTING TANKS SO THAT THE WATER DOES NOT RETURN DIRECTLY TO THE CREEK

5. SILT FENCING SHALL BE PLACED AS SHOWN PER DETAIL ON THIS SHEET. ADDITIONAL SILT FENCING MAY BE NECESSARY DURING CONSTRUCTION

6. ALL DIVERSION MATERIALS SHALL BE REMOVED FROM THE SITE AT THE COMPLETION OF THE PROJECT.



CONDUIT DETAIL

NTS

SILT FENCE DETAIL

NTS

-EXISTING 60" CONC PIPE TO BE DEMOLISHED AND REMOVED

- OPEN CUT EXCAVATION

DIVERSION CONDUIT(S)

AS REQUIRED

THE T

size D TETRA TECH INC.



U.S. ARMY ENGINEER DISTRICT, SEATT CORPS OF ENGINEERS SEATTLE- MASHINGTON

SHEET 17

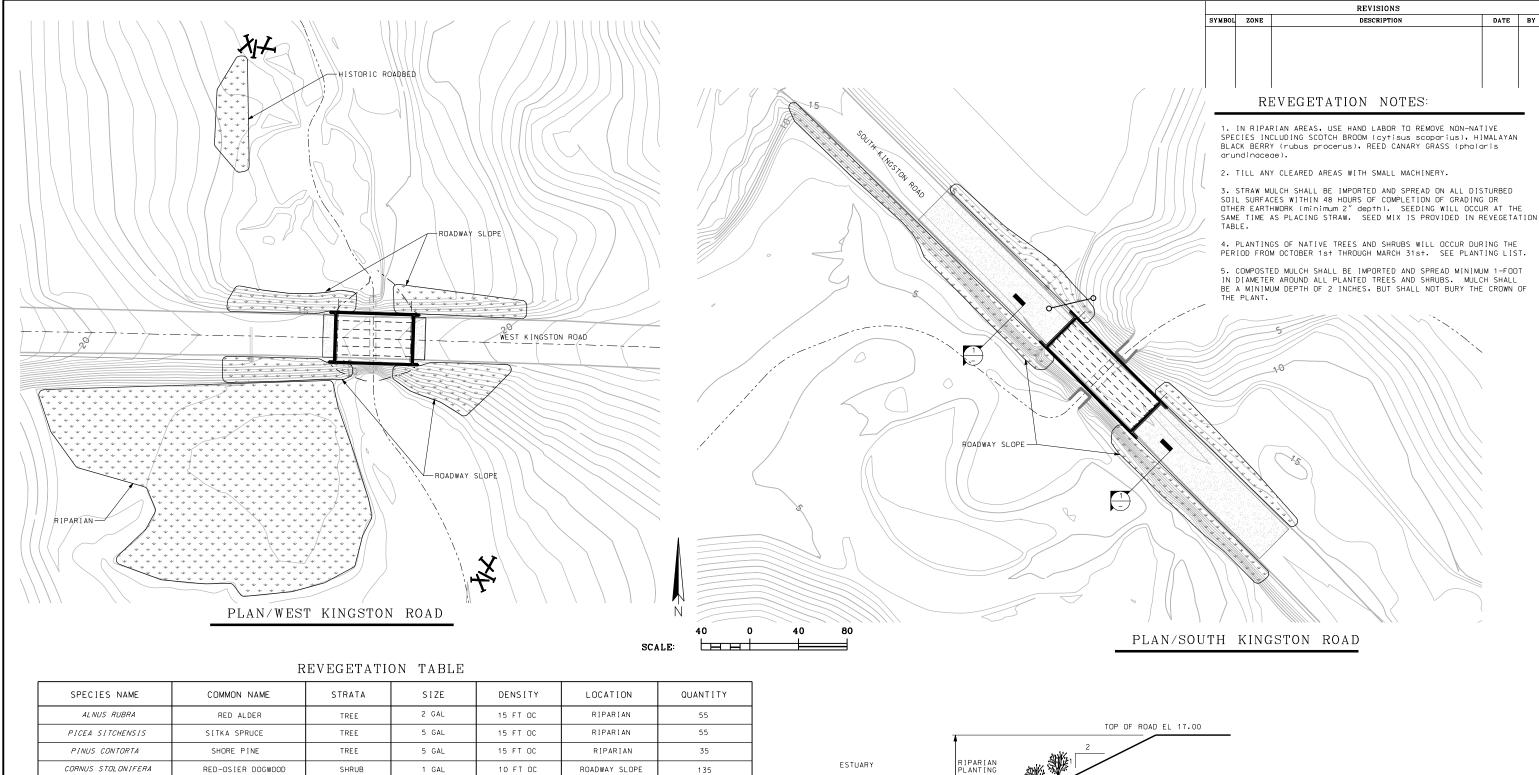
CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

DIVERSION PLAN CARPENTER CREEK WEST

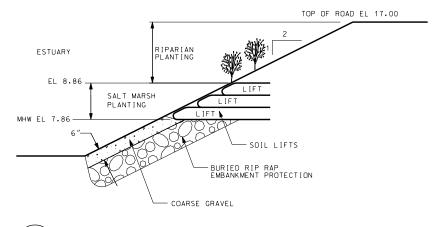
сик. ҮНС

KITSAP COUNTY, WASHINGTON

INVITATION NO. | PILE NO. | DATE | JUNE 2003 | C11



SPECIES NAME	COMMON NAME	STRATA	SIZE	DENSITY	LOCATION	QUANTITY
ALNUS RUBRA	RED ALDER	TREE	2 GAL	15 FT OC	RIPARIAN	55
PICEA SITCHENSIS	SITKA SPRUCE	TREE	5 GAL	15 FT OC	RIPARIAN	55
PINUS CONTORTA	SHORE PINE	TREE	5 GAL	15 FT OC	RIPARIAN	35
CORNUS STOLONIFERA	RED-OSIER DOGWOOD	SHRUB	1 GAL	10 FT OC	ROADWAY SLOPE	135
MALUS FUSCA	WESTERN CRABAPPLE	SHRUB	1 GAL	10 FT OC	SAL TMARSH	45
RIBES SANGUINEUM	RED-FLOWERING CURRANT	SHRUB	1 GAL	8 FT OC	ROADWAY SLOPE	135
SAMBUCUS RACEMOSA	RED ELDERBERRY	SHRUB	1 GAL	10 FT OC	ROADWAY SLOPE	70
SALIX HOOKERIANA	HOOKER WILLOW	SHRUB	CUTTINGS	2 FT OC	ROADWAY SLOPE	270
ANGELICA LUCIDA	SEAWATCH ANGELICA	HERB	SEED	1 LB/ACRE	CLEARED AREAS WITH	IN SALT MARSH ZON
ASTER SUBSPICATUS	DOUGLAS ASTER	HERB	SEED	1 LB/ACRE	CLEARED AREAS WITH	IN SALT MARSH ZON
TRIFOLIUM WORMSKJOLDII	SPRING BANK CLOVER	HERB	SEED	2 LB/ACRE	CLEARED AREAS WITH	IN SALT MARSH ZON
AGROSTIS OREGONENSIS	OREGON BENTGRASS	HERB	SEED	5 LB/ACRE	CLEARED AREAS WITH	IN SALT MARSH ZON
CALAMAGROSTIS NUTKAENSIS	PACIFIC REEDGRASS	HERB	SEED	5 LB/ACRE	CLEARED AREAS WITH	IN SALT MARSH ZON
DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	HERB	SEED	5 LB/ACRE	CLEARED AREAS WITH	IN SALT MARSH ZON
FESTUCA RUBRA	RED FESCUE	HERB	SEED	5 LB/ACRE	CLEARED AREAS WITH	IN RIPARIAN ZONE
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	HERB	SEED	5 LB/ACRE	CLEARED AREAS WITH	IN RIPARIAN ZONE



SOUTH KINGSTON ROAD EMBANKMENT PLANTING

35% DESIGN



TETRA TECH INC.
SEATTLE- WASHINGTON



CARPENTER CREEK ESTUARY SECTION 206 RESTORATION PROJECT

PLANTING PLAN AND NOTES

KITSAP COUNTY, WASHINGTON

SIZE INVITATION NO. FILE NO. DATE: JUNE 2003 P1

DSGN. IGP CHK. YHC SHEET 18